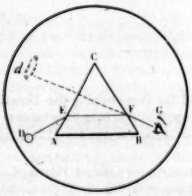

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An Approach to the Problem of Phosphorescence Under Anti-Stokes Excitation. A. V. Aristov. 15, 153 (1963) [15, 284 (1963)]

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Investigation of the Output Power of a Neon-Helium Laser as a Function of Various Parameters. N. G. Basov, E. P. Markin, and V. V. Nikitin. 15, 235 (1963) [15, 436 (1963)]

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Absorption and Dispersion of Light in the $EuCl_3 \cdot 6H_2O$ Crystal at the $^7F_0 - {}^5D_0$ Transition. N. K. Bel'skii. 15, 131 (1963) [15, 245 (1963)]

Berezin, V. I.
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Bobovich, Ya. S.
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Spectroscopic Study of the Mutual Orientation of the Phenyl Rings in Biphenyl Molecules. A. V. Bobrov and Kh. E. Sterin. 15, 68 (1963) [15, 130 (1963)]

Bochkova, O. P.
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On the Rotational Isomerism in Polyethyleneterephthalate. V. B. Boitsov and Yu. Ya. Gotlib. 15, 116 (1963) [15, 216 (1963)]

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Widths of the Low-Frequency Raman Lines of Crystals of Some Paradihalogenated Benzenes. A. V. Korshunov and A. F. Bondarev. 15, 98 (1963) [15, 182 (1963)]

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Average Energy of the Molecules of Rarefied Fluorescent Vapors. V. A. Tolkachev and N. A. Borisevich. 15, 165 (1963) [15, 306 (1963)]
Study of the Excited States of Molecules of Vapors on the Basis of the Universal Relation Between Fluorescence and Absorption Spectra. II. Structured Spectra. V. V. Gruzinskii and N. A. Borisevich. 15, 246 (1963) [15, 457 (1963)]

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Vibrational Spectra of Unsaturated Hydrocarbons. XI. Integrated Intensities and Polarizations in the Raman and Infrared Spectra of Allene and Tetradeuterioallene. M. G. Borisov and L. M. Sverdlov. 15, 14 (1963) [15, 31 (1963)]

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The Effect of Substituent Radicals on the Absorption Spectra of Monoalkylbenzene Crystals. G. V. Klimusheva, O. V. Bragin, E. A. Mikhailova, and I. L. Safonova. 15, 35 (1963) [15, 72 (1963)]

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Tables of Parameters of Analytic Wave Functions of Atoms and Ions. II. I. V. Kirillova, M. G. Veselov, and V. F. Brattsev. 15, 1 (1963) [15, 3 (1963)]

Tables of Parameters of Analytic Wave Functions of Atoms and Ions. III. Imposition of a Configuration. I. V. Kirillova, M. G. Veselov, and V. F. Bratsev. 15, 79 (1963) [15, 145 (1963)]

Bulanin, M. O.
Shapes of Infrared Absorption Bands and the Rotational Motion of Molecules in Liquids. Carbon Monoxide Solutions. M. O. Bulanin and N. D. Orlova. 15, 112 (1963) [15, 208 (1963)]

Burakov, V. S.
Investigation of the Gas Cloud Composition of an AC Arc. V. S. Burakov and P. A. Naumenkov. 15, 442 (1963) [15, 442 (1963)]

Buslaev, Yu. A.
Errata: "Determination of the Force Constant of the U–O Bond in the UO_2^{2+} Ion. Yu. Ya. Kharitonov and Yu. A. Buslaev. 14, 311 (1963) [14, 588 (1963)]" 15, 462 (1963) [15, 860 (1963)]

Chernenko, V. P.
Investigation of the Mechanism of Recombination Luminescence of a NaCl-Ag-Crystal Phosphor. V. P. Chernenko, F. N. Zaitov, and Yu. L. Lukantsever. 15, 41 (1963) [15, 83 (1963)]

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Analysis of the Vibrations of Monodeuteriomethane and the Planar Vibrations of Ethylene by the Perturbation Method. B. L. Livshits and N. A. Chumaevskii. 15, 331 (1963) [15, 609 (1963)]

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The Raman Spectra of Systems Formed by Tin Chloride With Complex Esters. III. A. D. Dembitskii, T. N. Sumarokova, and M. I. Usanovich. 15, 23 (1963) [15, 48 (1963)]

Denisyuk, Yu. N.
On the Reproduction of the Optical Properties of an Object by the Wave Field of Its Scattered Radiation. Yu. N. Denisyuk. 15, 279 (1963) [15, 522 (1963)]

Derkacheva, L. D.
Negative Absorption by Certain Organic Compounds. L. D. Derkacheva. 15, 73 (1963) [15, 138 (1963)]

Dubenskii, K. K.
Samarium-Activated Zinc Sulfide Monocrystals. K. K. Dubenskii, B. I. Maksakov, and T. K. Razumova. 15, 298 (1963) [15, 555 (1963)]

Egorov, V. S.
The Concentration of Excited Atoms in a Helium-Neon Pulsed Discharge. V. S. Egorov, Yu. G. Koslov, and A. M. Shukhtin. 15, 458 (1963) [15, 839 (1963)]

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Effect of an Electric Field on the NMR in Gases and Liquids. A. M. Vasil'ev and V. M. Evdokimov. 15, 419 (1963) [15, 772 (1963)]

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Study of Evaporated Electroluminescent Films of a ZnS-Cu, Mn Luminor. V. L. Bakumenko, G. S. Kozina, and V. N. Favorin. 15, 262 (1963) [15, 486 (1963)]

Fedorov, F. I.
A New Kind of Plane Electromagnetic Waves in Absorbing Crystals. N. S. Petrov and F. I. Fedorov. 15, 428 (1963) [15, 792 (1963)]

Reflection and Refraction of Light by Optically Active Crystals. B. V. Bokut and F. I. Fedorov. 15, 431 (1963) [15, 797 (1963)]

Feofilov, P. P.
Absorption and Emission of Divalent Holmium and Erbium Ions in Fluorite-Type Crystals. Ya. E. Kariss and P. P. Feofilov. 15, 308 (1963) [15, 572 (1963)]

Filippov, O. K.
Transmission of Long-Wavelength Infrared Radiation (40–200 μ) By Heated Crystalline and Fused Quartz. O. K. Filippov and N. G. Yaroslavskii. 15, 299 (1963) [15, 558 (1963)]

Finkel', A. G.
Experimental and Theoretical Investigation of Absolute Intensities in the Infrared Spectra of Hydrocarbons in the Gas Phase. I. Cyclopentane and Cyclohexane. A. G. Finkel', N. I. Prokof'eva, and L. M. Sverdlov. 15, 105 (1963) [15, 195 (1963)]

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The Applicability of the Linear Absorption Method to Inhomogeneous Light Sources. I. S. Fishman and G. G. Il'in. 15, 214 (1963) [15, 400 (1963)]

Some Experimental Relations of the Integral Characteristics of Radiation in an Arc. I. S. Fishman, I. Sh. Shaimanov, and G. G. Ilin. 15, 323 (1963) [15, 595 (1963)]

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The Temperature Dependence of Electroluminescent Yield. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 48 (1963) [15, 95 (1963)]

An Orange ZnS-Cu Phosphor Prepared by an Electrolytic Method. T. I. Voznesenskaya and M. V. Fok. 15, 133 (1963) [15, 249 (1963)]

Relationship Between the Phase of the Current, the Power Absorbed, and the Brightness of Electroluminescence. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 142 (1963) [15, 266 (1963)]

Frish, S. E.
Effective Cross Sections for the Direct and Stepwise Excitation of Neon Atoms. S. E. Frish and V. F. Revald. 15, 395 (1963) [15, 726 (1963)]

Garashchuk, V. P.
Introduction of Lithium and Strontium Into a Direct Current Arc Plasma in Helium at High Pressure. V. P. Garashchuk and V. P. Zakarov. 15, 66 (1963) [15, 129 (1963)]

Generalov, N. A.
Absorption of Ultraviolet Radiation by Strongly Heated Carbon Dioxide Gas. N. A. Generalov, S. A. Losev, and V. A. Maksimenko. 15, 12 (1963) [15, 27 (1963)]

Georgobiani, A. N.
The Temperature Dependence of Electroluminescent Yield. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 48 (1963) [15, 95 (1963)]

Relationship Between the Phase of the Current, the Power Absorbed, and the Brightness of Electroluminescence. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 142 (1963) [15, 266 (1963)]

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Measurement of the Optico-Acoustic Effect During Ultraviolet Irradiation of Certain Gases and Vapors. Ya. I. Gerlovin. 15, 386 (1963) [15, 713 (1963)]

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Spectroscopy of Frozen Crystalline Solutions of Diphenylpolyenes and Polyphenyls. II. G. V. Gobov. 15, 194 (1963) [15, 362 (1963)]

Gorbacheva, N. S.
Asymmetric Self-Reversible Spectral Line Profile as a Source of Information on Plasma Properties. N. S. Gorbacheva and N. G. Preobrazhenskii. 15, 244 (1963) [15, 453 (1963)]

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The Influence of the Adsorption and Desorption of Hydrogen on the Afterglow Kinetics of the Crystalline Phosphor ZnS-CdS,Cu. A. N. Gorban', V. G. Kornich, and V. P. Mazhara. 15, 67 (1963) [15, 130 (1963)]

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The Statistical Interference of Light Upon Reflection From Matte-Glass Surfaces. G. M. Gordinskii. 15, 57 (1963)

Goryushko, A. G.
Spectral Study of Polymethylmethacrylate Activated by Europium Benzoylacetonate. V. A. Voloshin, A. G. Goryushko, and V. A. Kul'chitskii. 15, 154 (1963) [15, 286 (1963)]

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On the Rotational Isomerism in Polyethyleneterephthalate. V. B. Boitsov and Yu. Ya. Gotlib. 15, 116 (1963) [15, 216 (1963)]

Grechishkin, V. S.
Nuclear Quadrupole Resonance Frequencies of Br^{79} and Br^{81} in Menshutkin Complexes. V. S. Grechishkin and I. A. Kyuntsel. 15, 453 (1963) [15, 832 (1963)]

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Oxadiazole Derivatives as Scintillation Activators in Various Solvents. L. M. Kutsyna, L. A. Ogurtsova, A. P. Grekov, and O. P. Shvaika. 15, 236 (1963) [15, 438 (1963)]

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On the Calculation of the Electro-Optical Parameters of Ethane and Methane. In Connection With the Paper by L. M. Sverdlov and N. I. Prokof'eva. L. A. Gribov. 15, 230 (1963) [15, 429 (1963)]

Gribova, Z. P.
Rotational Raman Spectra. II. Vinyl Acetylene (C_4H_4). Z. P. Gribova, V. I. Tyulin, and V. M. Tatevskii. 15, 172 (1963) [15, 320 (1963)]

Grigoruk, L. V.
Impurity Distribution and Formation of Color Centers Under the Action of X Rays in NaCl-Mn, NaCl-Cd, and NaCl-Pb. L. V. Grigoruk and I. Ya. Melik-Gaikazyan. 15, 210 (1963). [15, 394 (1963)]

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Study of the Excited States of Molecules of Vapors on the Basis of the Universal Relation Between Fluorescence and Absorption Spectra. II. Structured Spectra. V. V. Gruzinskii and N. A. Borisevich. 15, 246 (1963) [15, 457 (1963)]

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The Relationship Between the Excitation Temperature and the Gas Temperature in the Positive Column of an Arc Discharge. D. B. Gurevich and I. V. Podmoshenskii. 15, 319 (1963) [15, 587 (1963)]

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On the Article by V. I. Barkov "Transfer of Radiation in a Uniform Sphere With a Central Point-Source." M. M. Gurevich. 15, 75 (1963) [15, 140 (1963)]

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Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

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Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

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Mechanism of Luminescence Excitation in Cuprous Oxide in the Impurity Absorption Region. Yu. V. Vorob'ev and Yu. I. Karkhanin. 15, 207 (1963) [15, 389 (1963)]

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Radioluminescence of Activated Lithium Iodide Single Crystals. G. A. Mikhal'chenko and I. K. Karpov. 15, 264 (1963) [15, 490 (1963)]

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The Excitation of Inert Gases in the Positive Column of a Discharge at Medium Pressures. II. Argon. Yu. M. Kagan, R. I. Lyagushchenko, and A. D. Khakhaev. 15, 5 (1963) [15, 13 (1963)]
The Excitation of Inert Gases in the Positive Column of a Direct Current Discharge at Medium Pressures. III. Upper Levels of Neon and Argon. Yu. M. Kagan, L. A. Luizova, R. I. Lyagushchenko, and A. D. Khakhaev. 15, 241 (1963) [15, 446 (1963)]

Kharitonov, Yu. Ya.
Errata: "Determination of the Force Constant of the U–O Bond in the U_2^{5+} Ion. Yu. Ya. Kharitonov and Yu. A. Buslaev. 14, 311 (1963) [14, 588 (1963)]" 15, 462 (1963) [15, 860 (1963)]

Kharitonova, O. P.
The Electronic Spectra of 2,6-Dimethylnaphthalene in Solution. O. P. Kharitonova. 15, 9 (1963) [15, 21 (1963)]

Khil'ko, G. I.
Flashlike Rise of Luminescence. IV. The Effect of the Wavelength of the Exciting Light. A. I. Ryskin, N. A. Tolstoi, and G. I. Khil'ko. 15, 357 (1963) [15, 659 (1963)]

Khizhnyakov, V. V.
Causes of the Difference Between the Half-Widths of the Absorption and Emission Bands of Crystal Phosphors. N. N. Kristofel, K. K. Rebane, O. I. Sild, and V. V. Khizhnyakov. 15, 306 (1963) [15, 569 (1963)]

Kilin, S. F.
On the Radioluminescence of Organic Substances. I. Luminescence Duration in Nonluminescent Solvents. S. F. Kilin and I. M. Rozman. 15, 266 (1963) [15, 494 (1963)]

Kirillova, I. V.
Tables of Parameters of Analytic Wave Functions of Atoms and Ions. II. I. V. Kirillova, M. G. Veselov, and V. F. Bratsev. 15, 1 (1963) [15, 3 (1963)]
Tables of Parameters of Analytic Wave Functions of Atoms and Ions. III. Imposition of a Configuration. I. V. Kirillova, M. G. Veselov, and V. F. Bratsev. 15, 79 (1963) [15, 145 (1963)]

Kizel, V. A.
Optical Properties of Concentrated Solutions, Melts and Films of Dyes. II. V. M. Rubinov and V. A. Kizel. 15, 274 (1963) [15, 512 (1963)]

Klimova, L. A.
The Absorption and Emission Spectroscopy of Pyrene at 20° and 4°K. L. A. Klimova. 15, 185 (1963) [15, 344 (1963)]

Klimusheva, G. V.
The Effect of Substituent Radicals on the Absorption Spectra of Monoalkylbenzene Crystals. G. V. Klimusheva, O. V. Bragin, E. A. Mikhailova, and I. L. Safonova. 15, 35 (1963) [15, 72 (1963)]

Klochkov, V. P.
Temperature Dependence of the Intensity and Shape of the Absorption and Fluorescence Spectra of Anthracene Derivative Vapors. V. P. Klochkov and A. M. Makushenko. 15, 25 (1963) [15, 52 (1963)]
Effect of Foreign Gases on the Spectra and Fluorescence Yield of the Vapors of Anthracene Derivatives. V. P. Klochkov and A. M. Makushenko. 15, 127 (1963) [15, 237 (1963)]

Kobyshev, G. I.
Luminescence and Intracomplex Energy Transfer of Uranyl Phthalocyanine. G. N. Lyalin and G. I. Kobyshev. 15, 135 (1963) [15, 253 (1963)]
Evidence of Hydrogen Bonding with Uranyl Nitrate Hexahydrate in the Luminescence Spectrum of Mg-Phthalocyanine. G. I. Kobyshev, G. N. Lyalin, and A. N. Terenin. 15, 456 (1963) [15, 837 (1963)]

Kodzhespirov, F. F.
The Electroluminescence Efficiency of an Evaporated ZnS-Mn Phosphor. F. F. Kodzhespirov and S. A. Kostylev. 15, 144 (1963) [15, 269 (1963)]

Kolomoitsev, F. I.
The Red Electroluminescence of ZnSe, CdS-Cu Phosphors. F. I. Kolomoitsev, V. M. Korsun', S. M. Lazorina, and E. V. Stauer. 15, 44 (1963) [15, 89 (1963)]

Koptov, G. S.
Infrared Absorption Spectrum of Deuterated Hydrazine Vapors. Yu. I. Kotov, G. S. Koptov, Yu. A. Pentin, and V. M. Tatevskii. 15, 303 (1963) [15, 564 (1963)]

Kornich, V. G.
The Influence of the Adsorption and Desorption of Hydrogen on the Afterglow Kinetics of the Crystalline Phosphor ZnS-CdS, Cu. A. N. Gorban', V. G. Kornich, and V. P. Mazhara. 15, 67 (1963) [15, 130 (1963)]

Korolev, A. N.
A Study of Some of the Properties of a Fabry-Perot Etalon With a Small Transparent Window. I. M. Nagibina and A. N. Korolev. 15, 225 (1963) [15, 421 (1963)]

Korshunov, A. V.
Widths of the Low-Frequency Raman Lines of Crystals of Some Paradihalogenated Benzenes. A. V. Korshunov and A. F. Bondarev. 15, 98 (1963) [15, 182 (1963)]

Korsun', V. M.
The Red Electroluminescence of ZnSe, CdS-Cu Phosphors. F. I. Kolomoitsev, V. M. Korsun , S. M. Lazorina, and E. V. Stauer. 15, 44 (1963) [15, 89 (1963)]
Electroluminescence of an Evaporated ZnS-Mn Phosphor Excited by Unipolar Electric Pulses. V. M. Korsun and S. A. Kostylev. 15, 448 (1963) [15, 826 (1963)]

Koslov, Yu. G.
The Concentration of Excited Atoms in a Helium-Neon Pulsed Discharge. V. S. Egorov, Yu. G. Koslov, and A. M. Shukhtin. 15, 458 (1963) [15, 839 (1963)]

Kostylev, S. A.
The Electroluminescence Efficiency of an Evaporated ZnS-Mn Phosphor. F. F. Kodzhespirov and S. A. Kostylev. 15, 144 (1963) [15, 269 (1963)]

Electroluminescence of an Evaporated ZnS-Mn Phosphor Excited by Unipolar Electric Pulses. V. M. Korsun and S. A. Kostylev. 15, 448 (1963) [15, 826 (1963)]

Kotov, Yu. I.

The Vibrational Raman Spectrum of Hydrazine Vapor (H_2H_2). Yu. I. Kotov and V. M. Tatevskii. 15, 65 (1963) [15, 128 (1963)]

Infrared Absorption Spectrum of Deuterated Hydrazine Vapors. Yu. I. Kotov, G. S. Koptov, Yu. A. Pentin, and V. M. Tatevskii. 15, 303 (1963) [15, 564 (1963)]

Kovalev, I. F.

Vibrational Spectrum and Force Field of Methyltrifluorosilane. I. F. Kovalev. 15, 100 (1963) [15, 186 (1963)]

Kovner, M. A.

Vibrational Analysis of the Fluorescence Spectra of a Frozen Naphthalene Solution in Pentane and of Naphthalene Vapors. M. A. Kovner and E. P. Krainov. 15, 304 (1963) [15, 565 (1963)]

Kovtonyuk, N. F.

On the Theory of Electroluminescence. N. F. Kovtonyuk. 15, 140 (1963) [15, 262 (1963)]

On the Frequency Dependence of ZnS-Cu Luminescence. N. F. Kovtonyuk. 15, 388 (1963) [15, 716 (1963)]

Kozhushner, M. A.

The Relation Between the Cross Sections for Elastic and Inelastic Scattering in Nonadiabatic Atomic Collisions. M. A. Kozhushner and Yu. S. Sayasov. 15, 313 (1963) [15, 577 (1963)]

The Probability of Inelastic Atomic Collision in the Case of Several Points of Intersection (or Pseudo-Intersection) of Terms. M. A. Kozhushner and Yu. S. Sayasov. 15, 399 (1963) [15, 734 (1963)]

Kozina, G. S.

Study of Evaporated Electroluminescent Films of a ZnS-Cu, Mn Luminor. V. L. Bakumenko, G. S. Kozina, and V. N. Favorin. 15, 262 (1963) [15, 486 (1963)]

Kozyrev, B. M.

Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yasov, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Kozyrev, B. P.

Experimental Investigation of the Transmission Functions of Air in the Region of the Rotational Absorption Bands of Water Vapor. B. P. Kozyrev and A. V. Mezenov. 15, 293 (1963) [15, 549 (1963)]

Krainov, E. P.

Vibrational Analysis of the Fluorescence Spectra of a Frozen Naphthalene Solution in Pentane and of Naphthalene Vapors. M. A. Kovner and E. P. Krainov. 15, 304 (1963) [15, 565 (1963)]

Krindach, N. I.

Determination of the Electronic Transition Moments of the Schumann-Runge Bands of the Oxygen Molecule. II. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 161 (1963) [15, 298 (1963)]

Determination of the Electronic Transition Moments for the Schumann–Runge Bands of the Oxygen Molecule. III. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 326 (1963) [15, 601 (1963)]

Kristofel, N. N.

Causes of the Difference Between the Half-Widths of the Absorption and Emission Bands of Crystal Phosphors. N. N. Kristofel, K. K. Rebane, O. I. Sild, and V. V. Khizhnyakov. 15, 306 (1963) [15, 569 (1963)]

Krongauz, V. G.

Temperature Quenching of Luminescence of Siberian Diamonds. E. S. Vilutis and V. G. Krongauz. 15, 39 (1963) [15, 79 (1963)]

Krupp, D. M.

Calculation of an Aspherical Lens with a Pair of Real Aplanatic Points. A. G. Vlasov and D. M. Krupp. 15, 367 (1963) [15, 676 (1963)]

Krushinskii, L. L.

On the Theory of the Intensities of Raman Lines. IV. The Classical Model (Expansion of the Induced Moment in a Fourier Series). L. L. Krushinskii. 15, 406 (1963) [15, 747 (1963)]

Kryzhanovskii, V. P.

Reflection in the Long-Wavelength Region of Semiconducting Films of Silicon Monoxide Containing Silver and Gold. V. P. Kryzhanovskii, A. Ya. Kuznetsov, and L. A. Pafomova. 15, 447 (1963) [15, 824 (1963)]

Kukanov, A. B.

On the Cerenkov Absorption of Electromagnetic Radiation. A. B. Kukanov. 15, 62 (1963) [15, 123 (1963)]

On the Cerenkov Radiation Produced by Magnetic and Electric Moments in a Transparent Uniaxial Crystal. A. B. Kukanov and Tkhai Kuan. 15, 63 (1963) [15, 124 (1963)]

Kukushkin, L. S.

On the Theory of Radiationless Transitions in Doped Molecular Crystals. L. S. Kukushkin. 15, 198 (1963) [15, 371 (1963)]

Kul'chitskii, V. A.

Spectral Study of Polymethylmethacrylate Activated by Europium Benzoylacetonate. V. A. Voloshin, A. G. Goryushko, and V. A. Kul'chitskii. 15, 154 (1963) [15, 286 (1963)]

Kutsyna, L. M.

Oxadiazole Derivatives as Scintillation Activators in Various Solvents. L. M. Kutsyna, L. A. Ogurtsova, A. P. Grekov, and O. P. Shvaika. 15, 236 (1963) [15, 438 (1963)]

Kuznetsov, A. Ya.

Reflection in the Long-Wavelength Region of Semiconducting Films of Silicon Monoxide Containing Silver and Gold. V. P. Kryzhanovskii, A. Ya. Kuznetsov, and L. A. Pafomova. 15, 447 (1963) [15, 824 (1963)]

Kvasha, N. T.

Vibrational Spectra of Deuterium and Tritium Substitution Products of Nonlinear Triatomic Hydrides. V. P. Morozov, N. T. Kvasha, A. Ya Tsaune, and V. A. Lisovenko. 15, 335 (1963) [15, 617 (1963)]

Kyuntsel, I. A.

Nuclear Quadrupole Resonance Frequencies of Br^{79} and Br^{81} in Menshutkin Complexes. V. S. Grechishkin and I. A. Kyuntsel. 15, 453 (1963) [15, 832 (1963)]

Lazorina, S. M.

The Red Electroluminescence of ZnSe, CdS-Cu Phosphors. F. I. Kolomoitsev, V. M. Korsun', S. M. Lazorina, and E. V. Stauer. 15, 44 (1963) [15, 89 (1963)]

Lebedev, I. V.

Properties of Transmission-Type Quantum Amplifiers. V. V. Lebedeva and I. V. Lebedev. 15, 221 (1963) [15, 413 (1963)]

Lebedeva, V. V.

Properties of Transmission-Type Quantum Amplifiers. V. V. Lebedeva and I. V. Lebedev. 15, 221 (1963) [15, 413 (1963)]

Lisovenko, V. A.
Vibrational Spectra of Deuterium and Tritium Substitution Products of Nonlinear Triatomic Hydrides. V. P. Morozov, N. T. Kvasha, A. Ya Tsaune, and V. A. Lisovenko. 15, 335 (1963) [15, 617 (1963)]

Livshits, B. L.
Analysis of the Vibrations of Monodeuteriomethane and the Planar Vibrations of Ethylene by the Perturbation Method. B. L. Livshits and N. A. Chumaevskii. 15, 331 (1963) [15, 609 (1963)]

Losev, S. A.
Absorption of Ultraviolet Radiation by Strongly Heated Carbon Dioxide Gas. N. A. Generalov, S. A. Losev, and V. A. Maksimenko. 15, 12 (1963) [15, 27 (1963)]

Luizova, L. A.
The Excitation of Inert Gases in the Positive Column of a Direct Current Discharge at Medium Pressures. III. Upper Levels of Neon and Argon. Yu. M. Kagan, L. A. Luizova, R. I. Lyagushchenko, and A. D. Khakhaev. 15, 241 (1963) [15, 446 (1963)]
Determination of the Concentration of Charged Particles in a Low-Pressure Discharge from H_β Line Broadening. L. A. Luizova. 15, 455 (1963) [15, 835 (1963)]

Lukantsever, Yu. L.
Investigation of the Mechanism of Recombination Luminescence of a NaCl-Ag-Crystal Phosphor. V. P. Chernenko, F. N. Zaitov, and Yu. L. Lukantsever. 15, 41 (1963) [15, 83 (1963)]

Lukirskii, A. P.
Behavior of Gold and Titanium Coated Echelettes in the 23.6-113 Å Region. A. P. Lukirskii, E. P. Savinov, and Yu. F. Shepelev. 15, 290 (1963) [15, 543 (1963)]

Lushchik, Ch. B.
Optical Structure of Luminescence Centers in Ionic Crystals Activated by Mercury-Like Ions. S. G. Zazubovich, N. E. Lushchik, and Ch. B. Lushchik. 15, 203 (1963) [15, 381 (1963)]

Lushchik, N. E.
Optical Structure of Luminescence Centers in Ionic Crystals Activated by Mercury-Like Ions. S. G. Zazubovich, N. E. Lushchik, and Ch. B. Lushchik. 15, 203 (1963) [15, 381 (1963)]

L'vova, E. Yu.
The Temperature Dependence of Electroluminescent Yield. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 48 (1963) [15, 95 (1963)]
Relationship Between the Phase of the Current, the Power Absorbed, and the Brightness of Electroluminescence. A. N. Georgobiani, E. Yu. L'vova, and M. V. Fok. 15, 142 (1963) [15, 266 (1963)]

Lyagushchenko, R. I.
The Excitation of Inert Gases in the Positive Column of a Discharge at Medium Pressures. II. Argon. Yu. M. Kagan, R. I. Lyagushchenko, and A. D. Khakhaev. 15, 5 (1963) [15, 13 (1963)]
The Excitation of Inert Gases in the Positive Column of a Direct Current Discharge at Medium Pressures. III. Upper Levels of Neon and Argon. Yu. M. Kagan, L. A. Luizova, R. I. Lyagushchenko, and A. D. Khakhaev. 15, 241 (1963) [15, 446 (1963)]

Lyalin, G. N.
Luminescence and Intracomplex Energy Transfer of Uranyl Phthalocyanine. G. N. Lyalin and G. I. Kobyshev. 15, 135 (1963) [15, 253 (1963)]
Evidence of Hydrogen Bonding with Uranyl Nitrate Hexahydrate in the Luminescence Spectrum of Mg-Phthalocyanine. G. I. Kobyshev, G. N. Lyalin, and A. N. Terenin. 15, 456 (1963) [15, 837 (1963)]

Lyutyi, A. I.
Anomalous Excitation of Metals in Flames and in the Vapors of Certain Organic Compounds. V. F. Zhitkevich, A. I. Lyutyi, V. S. Rossikhin, and I. L. Tsikora. 15, 217 (1963) [15, 405 (1963)]

Maklakov, L. I.
Study of the Vibrational Spectra of Chloroform and Deuteriochloroform in the Liquid and Crystalline States. L. I. Maklakov, V. N. Nikitin, and A. V. Purkina. 15, 178 (1963) [15, 332 (1963)]
On the Vibrational Spectra of Bromoform and Deuteriobromoform in the Liquid and Crystalline States. L. I. Maklakov and V. N. Nikitin. 15, 445 (1963) [15, 822 (1963)]

Maksakov, B. I.
Samarium-Activated Zinc Sulfide Monocrystals. K. K. Dubenskii, B. I. Maksakov, and T. K. Razumova. 15, 298 (1963) [15, 555 (1963)]

Maksimenko, V. A.
Absorption of Ultraviolet Radiation by Strongly Heated Carbon Dioxide Gas. N. A. Generalov, S. A. Losev, and V. A. Maksimenko. 15, 12 (1963) [15, 27 (1963)]

Makushenko, A. M.
Temperature Dependence of the Intensity and Shape of the Absorption and Fluorescence Spectra of Anthracene Derivative Vapors. V. P. Klochkov and A. M. Makushenko. 15, 25 (1963) [15, 52 (1963)]
Effect of Foreign Gases on the Spectra and Fluorescence Yield of the Vapors of Anthracene Derivatives. V. P. Klochkov and A. M. Makushenko. 15, 127 (1963) [15, 237 (1963)]

Markin, E. P.
Investigation of the Output Power of a Neon-Helium Laser as a Function of Various Parameters. N. G. Basov, E. P. Markin, and V. V. Nikitin. 15, 235 (1963) [15, 436 (1963)]

Maslov, P. G.
On the Theory of the Use of Dependent Generalized Coordinates in the Study of Molecular Vibrations. P. G. Maslov. 15, 296 (1963) [15, 553 (1963)]

Matevosyan, R. O.
Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Mazhara, V. P.
The Influence of the Adsorption and Desorption of Hydrogen on the Afterglow Kinetics of the Crystalline Phosphor ZnS-CdS,Cu. A. N. Gorban', V. G. Kornich, and V. P. Mazhara. 15, 67 (1963) [15, 130 (1963)]

Melankholin, N. M.
Absorption Spectra of Liquid Crystals of Thiazine Dyes. N. M. Melankholin. 15, 423 (1963) [15, 781 (1963)]

Melik-Gaikazyan, I. Ya.
Impurity Distribution and Formation of Color Centers Under the Action of X Rays in NaCl-Mn, NaCl-Cd, and NaCl-Pb. L. V. Grigoruk and I. Ya. Melik-Gaikazyan. 15, 210 (1963) [15, 394 (1963)]

Mezenov, A. V.
Experimental Investigation of the Transmission Functions of Air in the Region of the Rotational Absorption Bands of Water Vapor. B. P. Kozyrev and A. V. Mezenov. 15, 293 (1963) [15, 549 (1963)]

Mikhailov, G. P.
Investigation of Molecular Interaction in Polymers and Their Hydrogenated Monomers on the Basis of Infrared Spectra. I. Hydrogenated Monomers and Copolymers. G. P. Mikhailov and A. L. Smolyanskii. 15, 254 (1963) [15, 471 (1963)]
Investigation of Molecular Interaction in Polymers and Their Hydrogenated Monomers on the Basis of Infrared Spectra. II. Polymers. G. P. Mikhailov and A. L. Smolyanskii. 15, 416 (1963) [15, 766 (1963)]

Mikhailova, E. A.
The Effect of Substituent Radicals on the Absorption Spectra of Monoalkylbenzene Crystals. G. V. Klimusheva, O. V. Bragin, E. A. Mikhailova, and I. L. Safonova. 15, 35 (1963) [15, 72 (1963)]

Mikhal'chenko, G. A.
Radioluminescence of Activated Lithium Iodide Single Crystals. G. A. Mikhal'chenko and I. K. Karpov. 15, 264 (1963) [15, 490 (1963)]

Mokhnach, V. O.
On the Absorption Spectra of Bromine Solutions. V. O. Mokhnach and I. M. Rufakova. 15, 451 (1963) [15, 830 (1963)]

Morozov, V. P.
Vibrational Spectra of Deuterium and Tritium Substitution Products of Nonlinear Triatomic Hydrides. V. P. Morozov, N. T. Kvasha, A. Ya Tsaune, and V. A. Lisovenko. 15, 335 (1963) [15, 617 (1963)]

Moskvin, Yu. V.
Photoionization of Atoms and Recombination of Ions in the Vapors of Alkali Metals. Yu. V. Moskvin. 15, 316 (1963) [15, 582 (1963)]

Mukhtarov, I. A.
Microwave Spectrum of the $F_2C{=}CHF$ Molecule. I. A. Mukhtarov. 15, 303 (1963) [15, 563 (1963)]

Murav'ev, V. T.
The Elastic Scattering of Slow S-Electrons by Helium Atoms. V. T. Murav'ev and B. M. Yavorskii. 15, 69 (1963) [15, 132 (1963)]

Murina, T. M.
Study of the CH_3Cl Molecule by Means of a Beam Spectroscope With a Disk Resonator. T. M. Murina and A. M. Prokhorov. 15, 119 (1963) [15, 221 (1963)]

Nagibina, I. M.
A Study of Some of the Properties of a Fabry-Perot Etalon With a Small Transparent Window. I. M. Nagibina and A. N. Korolev. 15, 225 (1963) [15, 421 (1963)]

Naumenkov, P. A.
Investigation of the Gas Cloud Composition of an AC Arc. V. S. Burakov and P. A. Naumenkov. 15, 442 (1963) [15, 442 (1963)]

Neporent, B. S.
Erratum: "Reversible Oriented Dichroism in Viscous Solutions of Complicated Organic Materials. B. S. Neporent and O. V. Stolbovoi. 14, 624 (1963) [14, 331 (1963)" 15, 97 (1963) [15, 288 (1963)]

Nikitin, V. N.
On the Vibrational Spectra of Bromoform and Deuteriobromoform in the Liquid and Crystalline States. L. I. Maklakov and V. N. Nikitin. 15, 445 (1963) [15, 822 (1963)]
Study of the Vibrational Spectra of Chloroform and Deuteriochloroform in the Liquid and Crystalline States. L. I. Maklakov, V. N. Nikitin, and A. V. Purkina. 15, 178 (1963) [15, 332 (1963)]

Nikitin, V. V.
Investigation of the Output Power of a Neon-Helium Laser as a Function of Various Parameters. N. G. Basov, E. P. Markin, and V. V. Nikitin. 15, 235 (1963) [15, 436 (1963)]

Nikulina, R. A.
Light Collection in Scintillators. L. N. Averina, B. I. Kerner, R. A. Nikulina, T. I. Sokolovskaya, and Yu. A. Tsirlin. 15, 146 (1963) [15, 274 (1963)]

Novik, K. M.
The Hyperfine Splitting of the Ground State of Tm^{169}. D. L. Kaminskii, K. M. Novik, N. I. Alekseev, and L. S. Varshalovich. 15, 239 (1963) [15, 441 (1963)]

Obridko, V. N.
Photoelectric Analysis of Polarized Light. B. A. Ioshpa and V. N. Obridko. 15, 60 (1963) [15, 119 (1963)]

Ogurtsova, L. A.
Oxadiazole Derivatives as Scintillation Activators in Various Solvents. L. M. Kutsyna, L. A. Ogurtsova, A. P. Grekov, and O. P. Shvaika. 15, 236 (1963) [15, 438 (1963)]

Ogurtsova, N. N.
Characteristics of the Plasma Jet of a Powerful Capillary Discharge. N. N. Ogurtsova, I. V. Podmoshenskii, and V. M. Shelemina. 15, 404 (1963) [15, 743 (1963)]

Orlova, N. D.
Shapes of Infrared Absorption Bands and the Rotational Motion of Molecules in Liquids. Carbon Monoxide Solutions. M. O. Bulanin and N. D. Orlova. 15, 112 (1963) [15, 208 (1963)]

Ostrovskii, Yu. I.
On A. M. Shuhktin's Paper "A Method of Superposing Spectrum Scanned Interference Patterns in Regions Close to the Absorption Band." Yu. I. Ostrovskii. 15, 74 (1963) [15, 140 (1963)]

Ovander, L. N.
On the Incoherence of Rayleigh Scattering. L. N. Ovander. 15, 150 (1963) [15, 281 (1963)]

Pafamova, L. A.
Reflection in the Long-Wavelength Region of Semiconducting Films of Silicon Monoxide Containing Silver and Gold. V. P. Kryzhanovskii, A. Ya. Kuznetsov, and L. A. Pafomova. 15, 447 (1963) [15, 824 (1963)]

Palistrant, M. E.
On the Theory of the F Band in Ionic Crystals. Calculation of the Higher Approximations of the Adiabatic Theory. M. E. Palistrant. 15, 425 (1963) [15, 785 (1963)]

Penkin, N. P.
Absolute Oscillator Strengths of the Resonance Doublets of Ag I and Au I. N. P. Penkin and I.-Yu. Yu. Slavenas. 15, 3 (1963) [15, 9 (1963)]
Oscillator Strengths of the Spectral Lines SnI and PbI. N. P. Penkin and I. Yu. Yu. Slavenas. 15, 83 (1963) [15, 154 (1963)]

Pentin, Yu. A.
Infrared Absorption Spectrum of Deuterated Hydrazine Vapors. Yu. I. Kotov, G. S. Koptov, Yu. A. Pentin, and V. M. Tatevskii. 15, 303 (1963) [15, 564 (1963)]

Perel'man, A. Ya.
The Determination of the Spectrum of Particles in a Dispersed System from Data on Its Transparency. I. The Fundamental Equation for the Determination of the Spectrum of the Particles. K. S. Shifrin and A. Ya. Perel'man. 15, 285 (1963) [15, 533 (1963)]
Determination of the Particle Spectrum of a Dispersed System from Data on Its Transparency. II. The Use of the Fundamental Equation with an Analytically Assigned Spectral Transparency. K. S. Shifrin and A. Ya. Perelman. 15, 362 (1963) [15, 667 (1963)]
Determination of the Particle Spectrum of a Dispersed System from Data on its Transparency. III. Use of the Fundamental Equation for the Case of a Tabular (Graphic) Presentation of the Spectral Transparency. K. S. Shifrin and A. Ya. Perelman. 15, 434 (1963) [15, 803 (1963)]

Personov, R. I.
Emission and Absorption Line Spectra of Phthalocyanine in Frozen Crystalline Solutions. R. I. Personov. 15, 30 (1963) [15, 61 (1963)]

Petrov, N. S.
A New Kind of Plane Electromagnetic Waves in Absorbing Crystals. N. S. Petrov and F. I. Fedorov. 15, 428 (1963) [15, 792 (1963)]

Podmoshenskii, I. V.
The Relationship Between the Excitation Temperature and the Gas Temperature in the Positive Column of an Arc Discharge. D. B. Gurevich and I. V. Podmoshenskii. 15, 319 (1963) [15, 587 (1963)]
Characteristics of the Plasma Jet of a Powerful Capillary Discharge. N. N. Ogurtsova, I. V. Podmoshenskii, and V. M. Shelemina. 15, 404 (1963) [15, 743 (1963)]

Popov, E. M.
Calculation of Electro-Optical Parameters and Analysis of Absorption Band Intensities in the Infrared Spectra of Complex Molecules. Nitrile Compounds. V. P. Roshchupkin and E. M. Popov. 15, 109 (1963) [15, 202 (1963)]
Analysis of the Vibrational Spectra of Polynitroalkanes. E. M. Popov and V. A. Shlyapochnikov. 15, 174 (1963) [15, 325 (1963)]

Preobrazhenskii, N. G.
Asymmetric Self-Reversible Spectral Line Profile as a Source of Information on Plasma Properties. N. S. Gorbacheva and N. G. Preobrazhenskii. 15, 244 (1963) [15, 453 (1963)]

Pribytkova, N. N.
A Spectroscopic Method for Determining the Density and Thickness of Layers of Strongly Absorbing Substances. N. G. Bakhshiev and N. N. Pribytkova. 15, 310 (1963) [15, 574 (1963)]

Prokhorov, A. M.
Study of the CH_3Cl Molecule by Means of a Beam Spectroscope With a Disk Resonator. T. M. Murina and A. M. Prokhorov. 15, 119 (1963) [15, 221 (1963)]

Prokof'eva, N. I.
Experimental and Theoretical Investigation of Absolute Intensities in the Infrared Spectra of Hydrocarbons in the Gas Phase. I. Cyclopentane and Cyclohexane. A. G. Finkel', N. I. Prokof'eva, and L. M. Sverdlov. 15, 105 (1963) [15, 195 (1963)]
Calculation of Absolute Raman Intensities and Depolarizations of Methane and Its Isotopic Forms in the Gas Phase. N. I. Prokof'eva and L. M. Sverdlov. 15, 170 (1963) [15, 315 (1963)]
On the Calculation of the Electro-Optical Parameters of Ethane and Methane. L. M. Sverdlov and N. I. Prokof'eva. 15, 227 (1963) [15, 424 (1963)]
In Connection With the Paper by L. A. Gribov. L. M. Sverdlov and N. I. Prokof'eva. 15, 232 (1963) [15, 431 (1963)]
Calculation of Integrated Intensities and Depolarizations in the Raman Spectra of Cyclohexane and Deuterocyclohexane. N. I. Prokof'eva, L. M. Sverdlov, and M. M. Sushchinskii. 15, 250 (1963) [15, 464 (1963)]
Erratum: "Calculation and Interpretation of Vibrational Spectra of Naphthalenes. V. Intensities and Depolarizations in the Raman Spectra of Cyclopentane and Deuterocyclopentane. N. I. Prokof'eva and L. M. Sverdlov. 13, 180 (1962) [13, 324 (1962)]" 15, 462 (1963) [15, 860 (1963)]

Purkina, A. V.
Study of the Vibrational Spectra of Chloroform and Deuteriochloroform in the Liquid and Crystalline States. L. I. Maklakov, V. N. Nikitin, and A. V. Purkina. 15, 178 (1963) [15, 332 (1963)]

Razumova, T. K.
Samarium-Activated Zinc Sulfide Monocrystals. K. K. Dubenskii, B. I. Maksakov, and T. K. Razumova. 15, 298 (1963) [15, 555 (1963)]

Razumowskaya, L. P.
Spectroscopic Observation of the Nonstable Region in a Transition from a "Weak" to a "Strong" High-Frequency Discharge. O. P. Bochkova and L. P. Razumowskaya. 15, 388 (1963) [15, 716 (1963)]

Rebane, K. K.
Causes of the Difference Between the Half-Widths of the Absorption and Emission Bands of Crystal Phosphors. N. N. Kristofel, K. K. Rebane, O. I. Sild, and V. V. Khizhnyakov. 15, 306 (1963) [15, 569 (1963)]

Revald, V. F.
Effective Cross Sections for the Direct and Stepwise Excitation of Neon Atoms. S. E. Frish and V. F. Revald. 15, 395 (1963) [15, 726 (1963)]

Roshchupkin, V. P.
Calculation of Electro-Optical Parameters and Analysis of Absorption Band Intensities in the Infrared Spectra of Complex Molecules. Nitrile Compounds. V. P. Roshchupkin and E. M. Popov. 15, 109 (1963) [15, 202 (1963)]

Rossikhin, V. S.
Anomalous Excitation of Metals in Flames and in the Vapors of Certain Organic Compounds. V. F. Zhitkevich, A. I. Lyutyi, V. S. Rossikhin, and I. L. Tsikora. 15, 217 (1963) [15, 405 (1963)]

Rozman, I. M.
On the Radioluminescence of Organic Substances. II. Luminescence Duration in Nonluminescent Solvents. S. F. Kilin and I. M. Rozman. 15, 266 (1963) [15, 494 (1963)]
Erratum: "The Dependence of the Radioluminescence Yield on the Energy of Particles. I. M. Rozman. 13, 160 (1962) [13, 287 (1962)]" 15, 462 (1963) [15, 860 (1963)]

Rubinov, V. M.
Optical Properties of Concentrated Solutions, Melts and Films of Dyes. II. V. M. Rubinov and V. A. Kizel. 15, 274 (1963) [15, 512 (1963)]

Rufakova, I. M.
On the Absorption Spectra of Bromine Solutions. V. O. Mokhnach and I. M. Rufakova. 15, 451 (1963) [15, 830 (1963)]

Ruzevich, Z. S.
Fluorescence and Absorption Spectra of Azulene in Frozen Crystalline Solutions. Z. S. Ruzevich. 15, 191 (1963) [15, 357 (1963)]

Ryskin, A. I.
Flashlike Rise of Luminescence. IV. The Effect of the Wavelength of the Exciting Light. A. I. Ryskin, N. A. Tolstoi, and G. I. Khil'ko. 15, 357 (1963) [15, 659 (1963)]

Ryzhmanov, Yu. M.
Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Sabin, F. A.
Intensities in Raman Spectra and the Metallic Model of the Molecule. III. Intensities and Degrees of Depolarization in the Spectra of Aromatic Compounds. F. A. Sabin. 15, 20 (1963) [15, 42 (1963)]

Safonova, I. L.
The Effect of Substituent Radicals on the Absorption Spectra of Monoalkylbenzene Crystals. G. V. Klimusheva, O. V. Bragin, E. A. Mikhailova, and I. L. Safonova. 15, 35 (1963) [15, 72 (1963)]

Samson, A. M.
Effect of Secondary Processes of Absorption and Emission on the Intensity and Polarization of Luminescence. II. Dependence of the Intensity and Degree of Polarization on the Properties of the Substance and the Direction of Observation. K. S. Adzerikho and A. M. Samson. 15, 121 (1963) [15, 226 (1963)]

Savinov, E. P.
Behavior of Gold and Titanium Coated Echelettes in the 23.6-113 Å Region. A. P. Lukirskii, E. P. Savinov, and Yu. F. Shepelev. 15, 290 (1963) [15, 543 (1963)]

Sayasov, Yu. S.
The Relation Between the Cross Sections for Elastic and Inelastic Scattering in Nonadiabatic Atomic Collisions. M. A. Kozhushner and Yu. S. Sayasov. 15, 313 (1963) [15, 577 (1963)]
The Probability of Inelastic Atomic Collision in the Case of Several Points of Intersection (or Pseudo-Intersection) of Terms. M. A. Kozhushner and Yu. S. Sayasov. 15, 399 (1963) [15, 734 (1963)]

Shabanova, L. N.
Oscillator Strengths of the Spectral Lines of CaI. L. N. Shabanova. 15, 450 (1963) [15, 828 (1963)]

Shabanova, I. N.
Erratum: "Oscillator Strengths of the Spectral Lines of CaI. I. N. Shabanova. 15, 450 (1963) [15, 828 (1963)]" 15, 462 (1963) [15, 860 (1963)]

Shaimanov, I. Sh.
Some Experimental Relations of the Integral Characteristics of Radiation in an Arc. I. S. Fishman, I. Sh. Shaimanov, and G. G. Ilin. 15, 323 (1963) [15, 595 (1963)]

Shatrukov, L. F.
Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Shelemina, V. M.
Characteristics of the Plasma Jet of a Powerful Capillary Discharge. N. N. Ogurtsova, I. V. Podmoshenskii, and V. M. Shelemina. 15, 404 (1963) [15, 743 (1963)]

Shepelev, Yu. F.
Behavior of Gold and Titanium Coated Echelettes in the 23.6-113 Å Region. A. P. Lukirskii, E. P. Savinov, and Yu. F. Shepelev. 15, 290 (1963) [15, 543 (1963)]

Sheremet, N. I.
Erratum: "The Nature of the Luminescence of Crystalline Anthracene at Low Temperatures. M. T. Shpak and N. I. Sheremet. 14, 433 (1963) [14, 816 (1963)]" 15, 462 (1963) [15, 860 (1963)]

Shestopalov, V. P.
Control of the Radiation of a Plane-Parallel Layer by Means of Gratings. O. A. Tret'yakov and V. P. Shestopalov. 15, 383 (1963) [15, 709 (1963)]

Shifrin, K. S.
The Determination of the Spectrum of Particles in a Dispersed System from Data on Its Transparency. I. The Fundamental Equation for the Determination of the Spectrum of the Particles. K. S. Shifrin and A. Ya. Perel'man. 15, 285 (1963) [15, 533 (1963)]
Determination of the Particle Spectrum of a Dispersed System from Data on Its Transparency. II. The Use of the Fundamental Equation with an Analytically Assigned Spectral Transparency. K. S. Shifrin and A. Ya. Perelman. 15, 362 (1963) [15, 667 (1963)]
Determination of the Particle Spectrum of a Dispersed System from Data on its Transparency. III. Use of the Fundamental Equation for the Case of a Tabular (Graphic) Presentation of the Spectral Transparency. K. S. Shifrin and A. Ya. Perelman. 15, 434 (1963) [15, 803 (1963)]

Shlyapochnikov, V. A.
Analysis of the Vibrational Spectra of Polynitroalkanes. E. M. Popov and V. A. Shlyapochnikov. 15, 174 (1963) [15, 325 (1963)]

Shorygin, P. P.
Raman Scattering and the Lifetime of the Excited State. P. P. Shorygin and T. M. Ivanova. 15, 94 (1963) [15, 176 (1963)]

Shpak, M. T.
Erratum: "The Nature of the Luminescence of Crystalline Anthracene at Low Temperatures. M. T. Shpak and N. I. Sheremet. 14, 433 (1963) [14, 816 (1963)]" 15, 462 (1963) [15, 860 (1963)]

Shukhtin, A. M.
The Concentration of Excited Atoms in a Helium-Neon Pulsed Discharge. V. S. Egorov, Yu. G. Koslov, and A. M. Shukhtin. 15, 458 (1963) [15, 839 (1963)]

Shvaika, O. P.
Oxadiazole Derivatives as Scintillation Activators in Various Solvents. L. M. Kutsyna, L. A. Ogurtsova, A. P. Grekov, and O. P. Shvaika. 15, 236 (1963) [15, 438 (1963)]

Sidorov, A. N.
On H→D Isotope Exchange Between Chlorophyll-Type Pigments and Deuterium-Containing Compounds. A. N. Sidorov. 15, 454 (1963) [15, 834 (1963)]

Sild, O. I.
Causes of the Difference Between the Half-Widths of the Absorption and Emission Bands of Crystal Phosphors. N. N. Kristofel, K. K. Rebane, O. I. Sild, and V. V. Khizhnyakov. 15, 306 (1963) [15, 569 (1963)]
On the Theory of the Spectral Bands of a Luminescence Center With a Small Radius. O. I. Sild. 15, 258 (1963) [15, 478 (1963)]

Simova, P. D.
An Investigation of the Raman Scattering Indicatrix in Several Liquids. A. I. Sokolovskaya and P. D. Simova. 15, 338 (1963) [15, 622 (1963)]

Sivkov, A. A.
A Resonance Optical-Acoustic Chamber. A. A. Sivkov and N. E. Aver'yanov. 15, 234 (1963) [15, 434 (1963)]

Skornyakov. G. P.
Fourth Ural Conference on Spectroscopy. G. P. Skornyakov. 15, 77 (1963) [15, 144 (1963)]

Slavenas, I.-Yu. Yu.
Absolute Oscillator Strengths of the Resonance Doublets of Ag I and Au I. N. P. Penkin and I.-Yu. Yu. Slavenas. 15, 3 (1963) [15, 9 (1963)]
Oscillator Strengths of the Spectral Lines SnI and PbI. N. P. Penkin and I.-Yu. Yu. Slavenas. 15, 83 (1963) [15, 154 (1963)]

Smolyanskii, A. L.
Investigation of Molecular Interaction in Polymers and Their Hydrogenated Monomers on the Basis of Infrared Spectra. I. Hydrogenated Monomers and Copolymers. G. P. Mikhailov and A. L. Smolyanskii. 15, 254 (1963) [15, 471 (1963)]
Investigation of Molecular Interaction in Polymers and Their Hydrogenated Monomers on the Basis of Infrared Spectra. II. Polymers. G. P. Mikhailov and A. L. Smolyanskii. 15, 416 (1963) [15, 766 (1963)]

Snegirev, B. N.
On the Computational Formula for the Calculation of the Tensor Components of the Polarizability Derivatives for a Polyatomic Molecule Using Normal Coordinates. B. N. Snegirev. 15, 440 (1963) [15, 816 (1963)]

Sobolev, N. N.
Determination of the Electronic Transition Moments of the Schumann-Runge Bands of the Oxygen Molecule. II. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 161 (1963) [15, 298 (1963)]
Determination of the Electronic Transition Moments for the Schumann—Runge Bands of the Oxygen Molecule. III. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 326 (1963) [15, 601 (1963)]

Sokolov, N. D.
Symposium on the Hydrogen Bond. N. D. Sokolov. 15, 75 (1963) [15, 142 (1963)]

Sokolovskaya, A. I.
An Investigation of the Raman Scattering Indicatrix in Several Liquids. A. I. Sokolovskaya and P. D. Simova. 15, 338 (1963) [15, 622 (1963)]

Sokolovskaya, T. I.
Light Collection in Scintillators. L. N. Averina, B. I. Kerner, R. A. Nikulina, T. I. Sokolovskaya, and Yu. A. Tsirlin. 15, 146 (1963) [15, 274 (1963)]

Soshnikov, V. N.
Erratum: "Simplified Method for Calculating the Shape of Infrared Molecular Bands at High Temperatures. V. N. Soshnikov. 13, 498 (1962) [13, 871 (1962)]" 15, 462 (1963) [15, 860 (1963)]

Stashkov, L. I.
Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Sterin, Kh. E.
Spectroscopic Study of the Mutual Orientation of the Phenyl Rings in Biphenyl Molecules. A. V. Bobrov and Kh. E. Sterin. 15, 68 (1963) [15, 130 (1963)]

Stauer, E. V.
The Red Electroluminescence of ZnSe, CdS-Cu Phosphors. F. I. Kolomoitsev, V. M. Korsun', S. M. Lazorina, and E. V. Stauer. 15, 44 (1963) [15, 89 (1963)]

Stolbovoi, O. V.
Erratum: "Reversible Oriented Dichroism in Viscous Solutions of Complicated Organic Materials. B. S. Neporent and O. V. Stolbovoi. 14, 624 (1963) [14, 331 (1963)]" 15, 97 (1963) [15, 288 (1963)]

Sumarokova, T. N.
The Raman Spectra of Systems Formed by Tin Chloride With Complex Esters. III. A. D. Dembitskii, T. N. Sumarokova, and M. I. Usanovich. 15, 23 (1963) [15, 48 (1963)]

Sushchinskii, M. M.
Low-Frequency Vibrations of Methyl-Substituted Cyclohexanes. U. A. Zirnit and M. M. Sushchinskii. 15, 102 (1963) [15, 190 (1963)]
Calculation of Integrated Intensities and Depolarizations in the Raman Spectra of Cyclohexane and Deuterocyclohexane. N. I. Prokof'eva, L. M. Sverdlov, and M. M. Sushchinskii. 15, 250 (1963) [15, 464 (1963)]
The VII European Congress on Molecular Spectroscopy in Budapest. M. V. Vol'kenshtein and M. M. Sushchinskii. 15, 459 (1963) [15, 841 (1963)]

Sverdlov, L. M.
Vibrational Spectra of Unsaturated Hydrocarbons. XI. Integrated Intensities and Polarizations in the Raman and Infrared Spectra of Allene and Tetradeuterioallene. M. G. Borisov and L. M. Sverdlov. 15, 14 (1963) [15, 31 (1963)]
Derivation of the Computational Formula for Calculating the Components of the Tensor of the Derivatives of the Molecular Polarizability With Respect to the Normal Coordinates. L. M. Sverdlov. 15, 70 (1963) [15, 133 (1963)]
Computational Formulas for the Intensities of the Infrared Spectra of Polyatomic Molecules in the First Approximation of the Generalized Valence-Optical Theory. L. M. Sverdlov. 15, 72 (1963) [15, 136 (1963)]
Experimental and Theoretical Investigation of Absolute Intensities in the Infrared Spectra of Hydrocarbons in the Gas Phase. I. Cyclopentane and Cyclohexane. A. G. Finkel', N. I. Prokof'eva, and L. M. Sverdlov. 15, 105 (1963) [15, 195 (1963)]
Calculation of Absolute Raman Intensities and Depolarizations of Methane and Its Isotopic Forms in the Gas Phase. N. I. Prokof'eva and L. M. Sverdlov. 15, 170 (1963) [15, 315 (1963)]
On the Calculation of the Electro-Optical Parameters of Ethane and Methane. L. M. Sverdlov and N. I. Prokof'eva. 15, 227 (1963) [15, 424 (1963)]
In Connection With the Paper by L. A. Gribov. L. M. Sverdlov and N. I. Prokof'eva. 15, 232 (1963) [15, 431 (1963)]
Calculation of Integrated Intensities and Depolarizations in the Raman Spectra of Cyclohexane and Deuterocyclohexane. N. I. Prokof'eva, L. M. Sverdlov, and M. M. Sushchinskii. 15, 250 (1963) [15, 464 (1963)]
Intensity Formulas for Raman and Infrared Combination Tones and Overtones of Polyatomic Molecules. L. M. Sverdlov. 15, 439 (1963) [15, 814 (1963)]

Erratum: "Calculation and Interpretation of Vibrational Spectra of Naphthalenes. V. Intensities and Depolarizations in the Raman Spectra of Cyclopentane and Deuterocyclopentane. N. I. Prokof'eva and L. M. Sverdlov. 13, 180 (1962) [13, 324 (1962)]" 15, 462 (1963) [15, 860 (1963)]

Tatevskii, V. M.

Rotational Raman Spectra. I. Carbon Dioxide CO_2. V. I. Tyulin and V. M. Tatevskii. 15, 18 (1963) [15, 38 (1963)]

The Vibrational Raman Spectrum of Hydrazine Vapor (H_2H_4). Yu. I. Kotov and V. M. Tatevskii. 15, 65 (1963) [15, 128 (1963)

Rotational Raman Spectra. II. Vinyl Acetylene (C_4H_4). Z. P. Gribova, V. I. Tyulin, and V. M. Tatevskii. 15, 172 (1963) [15, 320 (1963)]

Infrared Absorption Spectrum of Deuterated Hydrazine Vapors. Yu. I. Kotov, G. S. Koptov, Yu. A. Pentin, and V. M. Tatevskii. 15, 303 (1963) [15, 564 (1963)]

Tavger, B. A.

On the Franck-Condon Principle for Polyatomic Molecules. B. A. Tavger. 15, 301 (1963) [15, 561 (1963)]

Teplyakov, P. A.

Quasi-Linear Phosphorescence Spectra of Phenanthrene Solutions. P. A. Teplyakov. 15, 350 (1963) [15, 645 (1963)]

Terenin, A. N.

Evidence of Hydrogen Bonding with Uranyl Nitrate Hexahydrate in the Luminescence Spectrum of Mg-Phthalocyanine. G. I. Kobyshev, G. N. Lyalin, and A. N. Terenin. 15, 456 (1963) [15, 837 (1963)]

Tkachuk, A. M.

An Ultra-Taumeter with a Pulse Lamp. N. A. Tolstoi and A. M. Tkachuk. 15, 378 (1963) [15, 698 (1963)]

Tkhai, Kuan

On the Cerenkov Radiation Produced by Magnetic and Electric Moments in a Transparent Uniaxial Crystal. A. B. Kukanov and Tkhai Kuan. 15, 63 (1963) [15, 124 (1963)]

Tolkachev, V. A.

Average Energy of the Molecules of Rarefied Fluorescent Vapors. V. A. Tolkachev and N. A. Borisevich. 15, 165 (1963) [15, 306 (1963)]

Tolstoi, N. A.

Flashlike Rise of Luminescence. IV. The Effect of the Wavelength of the Exciting Light. A. I. Ryskin, N. A. Tolstoi, and G. I. Khil'ko. 15, 357 (1963) [15, 659 (1963)]

An Ultra-Taumeter with a Pulse Lamp. N. A. Tolstoi and A. M. Tkachuk. 15, 378 (1963) [15, 698 (1963)]

Tret'yakov, O. A.

Control of the Radiation of a Plane-Parallel Layer by Means of Gratings. O. A. Tret'yakov and V. P. Shestopalov. 15, 383 (1963) [15, 709 (1963)]

Tsaune, A. Ya.

Vibrational Spectra of Deuterium and Tritium Substitution Products of Nonlinear Triatomic Hydrides. V. P. Morozov, N. T. Kvasha, A. Ya. Tsaune, and V. A. Lisovenko. 15, 335 (1963) [15, 617 (1963)]

Tskikora, I. L.

Anomalous Excitation of Metals in Flames and in the Vapors of Certain Organic Compounds. V. F. Zhitkevich, A. I. Lyutyi, V. S. Rossikhin, and I. L. Tsikora. 15, 217 (1963) [15, 405 (1963)]

Tsirlin, Yu. A.

Light Collection in Scintillators. L. N. Averina, B. I. Kerner, R. A. Nikulina, T. I. Sokolovskaya, and Yu. A. Tsirlin. 15, 146 (1963) [15, 274 (1963)]

Tunitskii, N. N.

Resonant Intermolecular Transfer of Excitation, With Consideration of Diffusion. N. N. Tunitskii and Kh. S. Bagdasar'yan. 15, 50 (1963) [15, 100 (1963)]

Tunitskii, L. N.

Determination of the Electronic Transition Moments of the Schumann-Runge Bands of the Oxygen Molecule. II. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 161 (1963) [15, 298 (1963)]

Determination of the Electronic Transition Moments for the Schumann—Runge Bands of the Oxygen Molecule. III. N. I. Krindach, N. N. Sobolev, and L. N. Tunitskii. 15, 326 (1963) [15, 601 (1963)]

Tyulin, V. I.

Rotational Raman Spectra. I. Carbon Dioxide CO_2. V. I. Tyulin and V. M. Tatevskii. 15, 18 (1963) [15, 38 (1963)]

Rotational Raman Spectra. II. Vinyl Acetylene (C_4H_4). Z. P. Gribova, V. I. Tyulin, and V. M. Tatevskii. 15, 172 (1963) [15, 320 (1963)]

Usanovich, M. I.

The Raman Spectra of Systems Formed by Tin Chloride With Complex Esters. III. A. D. Dembitskii, T. N. Sumarokova, and M. I. Usanovich. 15, 23 (1963) [15, 48 (1963)]

Valbis, Ya. A.

Recombination Luminescence Spectra of Some Crystal Phosphors on a KBr Base. Ya. A. Valbis. 15, 151 (1963) [15, 282

Valeev, A. S.

Determination of the Optical Constants of Weakly Absorbing Thin Films. A. S. Valeev. 15, 269 (1963) [15, 500 (1963)]

Valyashko, E. G.

Polarizing Prisms. E. G. Valyashko. 15, 374 (1963) [15, 690 (1963)]

Varshalovich, L. S.

The Hyperfine Splitting of the Ground State of Tm^{169}. D. L. Kaminskii, K. M. Novik, N. I. Alekseev, and L. S. Varshalovich. 15, 239 (1963) [15, 441 (1963)]

Vasil'ev, A. M.

Effect of an Electric Field on the NMR in Gases and Liquids. A. M. Vasil'ev and V. M. Evdokimov. 15, 419 (1963) [15, 772 (1963)]

Veselov, M. G.

Tables of Parameters of Analytic Wave Functions of Atoms and Ions. II. I. V. Kirillova, M. G. Veselov, and V. F. Bratsev. 15, 1 (1963) [15, 3 (1963)]

Tables of Parameters of Analytic Wave Functions of Atoms and Ions. III. Imposition of a Configuration. I. V. Kirillova, M. G. Veselov, and V. F. Bratsev. 15, 79 (1963) [15, 145 (1963)]

Vetchinkin, S. I.

Minimization of the Root-Mean-Square Error for the Approximate Wave Function and Calculation of Matrix Elements. S. I. Vetchinkin. 15, 157 (1963) [15, 291 (1963)]

Vilutis, E. S.

Temperature Quenching of Luminescence of Siberian Diamonds. E. S. Vilutis and V. G. Krongauz. 15, 39 (1963) [15, 79 (1963)]

Vlasov, A. G.

Calculation of an Aspherical Lens with a Pair of Real Aplanatic Points. A. G. Vlasov and D. M. Krupp. 15, 367 (1963) [15, 676 (1963)]

Vol'kenshtein, M. V.
The VII European Congress on Molecular Spectroscopy in Budapest. M. V. Vol'kenshtein and M. M. Sushchinskii. 15, 459 (1963) [15, 841 (1963)]

Voloshin, V. A.
Spectral Study of Polymethylmethacrylate Activated by Europium Benzoylacetonate. V. A. Voloshin, A. G. Goryushko, and V. A. Kul'chitskii. 15, 154 (1963) [15, 286 (1963)]

Vorob'ev, Yu. V.
Mechanism of Luminescence Excitation in Cuprous Oxide in the Impurity Absorption Region. Yu. V. Vorob'ev and Yu. I. Karkhanin. 15, 207 (1963) [15, 389 (1963)]

Voznesenskaya, T. I.
An Orange ZnS-Cu Phosphor Prepared by an Electrolytic Method. T. I. Voznesenskaya and M. V. Fok. 15, 133 (1963) [15, 249 (1963)]

Yablokov, Yu. V.
Electron Paramagnetic Resonance of Substituted Diphenylpicrylhydrazyls. B. M. Kozyrev, Yu. V. Yablokov, R. O. Matevosyan, M. A. Ikrina, A. V. Il'yavos, Yu. M. Ryzhmanov, L. I. Stashkov, and L. F. Shatrukov. 15, 340 (1963) [15, 625 (1963)]

Yaroslavskii, N. G.
Transmission of Long-Wavelength Infrared Radiation (40-200 μ) By Heated Crystalline and Fused Quartz. O. K. Filippov and N. G. Yaroslavskii. 15, 299 (1963) [15, 558 (1963)]

Yavorskii, B. M.
The Elastic Scattering of Slow S-Electrons by Helium Atoms. V. T. Murav'ev and B. M. Yavorskii. 15, 69 (1963) [15, 132 (1963)]

Zaitov, F. N.
Investigation of the Mechanism of Recombination Luminescence of a NaCl-Ag-Crystal Phosphor. V. P. Chernenko, F. N. Zaitov, and Yu. L. Lukantsever. 15, 41 (1963) [15, 83 (1963)]

Zakarov, V. P.
Introduction of Lithium and Strontium Into a Direct Current Arc Plasma in Helium at High Pressure. V. P. Garashchuk and V. P. Zakarov. 15, 66 (1963) [15, 129 (1963)]

Zamkov, V. A.
Phenomenological Theory of Electro-Optical Effects. I. Kerr Effect and Anisotropy of Electrostriction. V. A. Zamkov. 15, 355 (1963) [15, 654 (1963)]

Zazubovich, S. G.
Optical Structure of Luminescence Centers in Ionic Crystals Activated by Mercury-Like Ions. S. G. Zazubovich, N. E. Lushchik, and Ch. B. Lushchik. 15, 203 (1963) [15, 381 (1963)]

Zhirnov, N. I.
Quasi-Classical Wave Functions of the Morse Oscillator and Their Application to the Calculation of the Franck-Condon Factors. I. Representation of the Vibrational Functions of an Anharmonic Oscillator by Hermite Polynomials. N. I. Zhirnov. 15, 89 (1963) [15, 166 (1963)]

Zhitkevich, V. F.
Anomalous Excitation of Metals in Flames and in the Vapors of Certain Organic Compounds. V. F. Zhitkevich, A. I. Lyutyi, V. S. Rossikhin, and I. L. Tsikora. 15, 217 (1963) [15, 405 (1963)]

Zirnit, U. A.
Low-Frequency Vibrations of Methyl-Substituted Cyclohexanes. U. A. Zirnit and M. M. Sushchinskii. 15, 102 (1963) [15, 190 (1963)]

Zubkova, L. B.
Calculation of Certain Parameters of the o-Isomer of Nitrophenol With Allowance for H-Bonding. L. B. Zubkova. 15, 64 (1963) [15, 126 (1963)]